This Raw Listing contains the General Information Section and up to first 5 pages.

ENTERED

```
 1   <110> APPLICANT: Steven M. Ruben, et al.
 2   <120> TITLE OF INVENTION: 32 Human Secreted Proteins
 3   <130> FILE REFERENCE: PZ006P1
 4   <140> CURRENT APPLICATION NUMBER: US/09/189,144
 5   <141> CURRENT FILING DATE: 1998-11-10
 6   <150> EARLIER APPLICATION NUMBER: PCT/US98/10868
 7   <151> EARLIER FILING DATE: May 28, 1998
 8   <150> EARLIER APPLICATION NUMBER: 60/044,039
 9   <151> EARLIER FILING DATE: May 30, 1997
10   <150> EARLIER APPLICATION NUMBER: 60/048,093
11   <151> EARLIER FILING DATE: May 30, 1997
12   <150> EARLIER APPLICATION NUMBER: 60/048,190
13   <151> EARLIER FILING DATE: May 30, 1997
14   <150> EARLIER APPLICATION NUMBER: 60/050,935
15   <151> EARLIER FILING DATE: May 30, 1997
16   <150> EARLIER APPLICATION NUMBER: 60/048,101
17   <151> EARLIER FILING DATE: May 30, 1997
18   <150> EARLIER APPLICATION NUMBER: 60/048,356
19   <151> EARLIER FILING DATE: May 30, 1997
20   <150> EARLIER APPLICATION NUMBER: 60/056,250
21   <151> EARLIER FILING DATE: August 29, 1997
22   <150> EARLIER APPLICATION NUMBER: 60/056,296
23   <151> EARLIER FILING DATE: August 29, 1997
24   <150> EARLIER APPLICATION NUMBER: 60/056,293
25   <151> EARLIER FILING DATE: August 29, 1997
26   <160> NUMBER OF SEQ ID NOS: 229
27   <170> SOFTWARE: PatentIn Ver. 2.0
28   <210> SEQ ID NO 1
29   <211> LENGTH: 733
30   <212> TYPE: DNA
31   <213> ORGANISM: Homo sapiens
32   <400> SEQUENCE: 1
33       gggatccgga gcccaaatct tctgacaaaa ctcacacatg cccaccgtgc ccagcacctg        60
34       aattcgaggg tgcaccgtca gtcttcctct tccccccaaa acccaaggac accctcatga       120
35       tctcccggac tcctgaggtc acatgcgtgg tggtggacgt aagccacgaa gaccctgagg       180
36       tcaagttcaa ctggtacgtg gacggcgtgg aggtgcataa tgccaagaca aagccgcggg       240
37       aggagcagta caacagcacg taccgtgtgg tcagcgtcct caccgtcctg caccaggact       300
38       ggctgaatgg caaggagtac aagtgcaagg tctccaacaa agccctccca acccccatcg       360
39       agaaaaccat ctccaaagcc aaagggcagc cccgagaacc acaggtgtac accctgcccc       420
40       catcccggga tgagctgacc aagaaccagg tcagcctgac ctgcctggtc aaaggcttct       480
41       atccaagcga catcgccgtg gagtgggaga gcaatgggca gccggagaac aactacaaga       540
42       ccacgcctcc cgtgctggac tccgacggct ccttcttcct ctacagcaag ctcaccgtgg       600
43       acaagagcag gtggcagcag gggaacgtct tctcatgctc cgtgatgcat gaggctctgc       660
44       acaaccacta cacgcagaag agcctctccc tgtctccggg taaatgagtg cgacggccgc       720
```

```
45            gactctagag gat                                                    733
46   <210> SEQ ID NO 2
47   <211> LENGTH: 5
48   <212> TYPE: PRT
49   <213> ORGANISM: Homo sapiens
50   <220> FEATURE:
51   <221> NAME/KEY: Site
52   <222> LOCATION: (3)
53   <223> OTHER INFORMATION: Xaa equals any of the twenty naturally ocurring L-amino ac
54   <400> SEQUENCE: 2
55        Trp Ser Xaa Trp Ser
56             1              5
57   <210> SEQ ID NO 3
58   <211> LENGTH: 86
59   <212> TYPE: DNA
60   <213> ORGANISM: Homo sapiens
61   <400> SEQUENCE: 3
62        gcgcctcgag atttccccga aatctagatt tccccgaaat gatttccccg aaatgatttc      60
63        cccgaaatat ctgccatctc aattag                                          86
64   <210> SEQ ID NO 4
65   <211> LENGTH: 27
66   <212> TYPE: DNA
67   <213> ORGANISM: Homo sapiens
68   <400> SEQUENCE: 4
69        gcggcaagct ttttgcaaag cctaggc                                         27
70   <210> SEQ ID NO 5
71   <211> LENGTH: 271
72   <212> TYPE: DNA
73   <213> ORGANISM: Homo sapiens
74   <400> SEQUENCE: 5
75        ctcgagattt ccccgaaatc tagatttccc cgaaatgatt tccccgaaat gatttccccg      60
76        aaatatctgc catctcaatt agtcagcaac catagtcccg cccctaactc cgcccatccc     120
77        gcccctaact ccgcccagtt ccgcccattc tccgccccat ggctgactaa tttttttttat    180
78        ttatgcagag gccgaggccg cctcggcctc tgagctattc cagaagtagt gaggaggctt      240
79        ttttggaggc ctaggctttt gcaaaaagct t                                    271
80   <210> SEQ ID NO 6
81   <211> LENGTH: 32
82   <212> TYPE: DNA
83   <213> ORGANISM: Homo sapiens
84   <400> SEQUENCE: 6
85        gcgctcgagg gatgacagcg atagaacccc gg                                   32
86   <210> SEQ ID NO 7
87   <211> LENGTH: 31
88   <212> TYPE: DNA
89   <213> ORGANISM: Homo sapiens
90   <400> SEQUENCE: 7
91        gcgaagcttc gcgactcccc ggatccgcct c                                    31
92   <210> SEQ ID NO 8
93   <211> LENGTH: 12
94   <212> TYPE: DNA
```

W--> OK

```
 95   <213> ORGANISM: Homo sapiens
 96   <400> SEQUENCE: 8
 97         ggggactttc cc                                               12
 98   <210> SEQ ID NO 9
 99   <211> LENGTH: 73
100   <212> TYPE: DNA
101   <213> ORGANISM: Homo sapiens
102   <400> SEQUENCE: 9
103         gcggcctcga ggggactttc ccggggactt tccggggact ttccgggact ttccatcctg   60
104         ccatctcaat tag                                             73
105   <210> SEQ ID NO 10
106   <211> LENGTH: 256
107   <212> TYPE: DNA
108   <213> ORGANISM: Homo sapiens
109   <400> SEQUENCE: 10
110         ctcgagggga ctttcccggg gactttccgg ggactttccg ggactttcca tctgccatct   60
111         caattagtca gcaaccatag tcccgcccct aactccgccc atcccgcccc taactccgcc  120
112         cagttccgcc cattctccgc cccatggctg actaattttt tttatttatg cagaggccga  180
113         ggccgcctcg gcctctgagc tattccagaa gtagtgagga ggcttttttg gaggcctagg  240
114         cttttgcaaa aagctt                                         256
115   <210> SEQ ID NO 11
116   <211> LENGTH: 1169
117   <212> TYPE: DNA
118   <213> ORGANISM: Homo sapiens
119   <220> FEATURE:
120   <221> NAME/KEY: SITE
121   <222> LOCATION: (1151)
122   <223> OTHER INFORMATION: n equals a,t,g, or c
123   <220> FEATURE:
124   <221> NAME/KEY: SITE
125   <222> LOCATION: (1160)
126   <223> OTHER INFORMATION: n equals a,t,g, or c
127   <220> FEATURE:
128   <221> NAME/KEY: SITE
129   <222> LOCATION: (1168)
130   <223> OTHER INFORMATION: n equals a,t,g, or c
131   <400> SEQUENCE: 11
132         ggggcgcaaa tagggtcagt gggccgcttg gcgktgttcg ttgcggtacc aggtccgcgt   60
133         gaggggttcg ggggttctgg gcaggcacaa tggcgtctcg agcaggcccg cgagcggccg  120
134         rcaccgacgc agcgagcttt cagcaccggg agcgcgtcgc catgcactac cagatgagtg  180
135         tgaccctcaa gtatgaaatc aagaagctga tctacgtaca tctggtcata tggctgctgc  240
136         tggttgctaa gatgagcgtg ggacacctga ggctcttgtc acatgatcag gtggccatgc  300
137         cctatcagtg ggaatacccg tatttgctga gcattttgcc ctctctcttg gccttctct   360
138         cctttccccg caacaacatt agctacctgg tgctctccat gatcagcatg ggactctttt  420
139         ccatcgctcc actcatttat ggcagcatgg agatgttccc tgctgcacag ccttctaccg  480
140         ccatggcaag gcctaccgtt tcctctttgg tttttctgcc gtttccatca tgtacctggt  540
141         gttggtgttg gcagtgcaag tgcatgcctg gcagttgtac tacagcaaga agctcctaga  600
142         ctcttggttc accagcacac aggagaagaa gcataaatga agcctctttg gggtgaagcc  660
143         tggacatccc atcgaatgaa aggacactag tacagcggtt ccaaaatccc ttctggtgat  720
144         tttagcagct gtgatgttgg tacctggtgc agacccaggc caaagttctg gaaagctcct  780
```

```
145         tttgccatct gctgaggtgg caaaactata atttattcct ggttggctag aactgggtga        840
146         ccaacagcta tgaaacaaat ttcagctgtt tgaagttgaa ctttgaggtt tttctttaag        900
147         aatgagcttc gtccttgcct ctactcggtc attctcccca tttccatcca ttaccccctta        960
148         gccattgaga ctaaaggaaa tagggaataa atcaaattac ttcatctcta ggtcacgggt       1020
149         caggaaacat ttgggcagct gctcccttgg cagctgtggt ctcctctgca aagcatttta       1080
150         attaaaaacc tcaataaaga tgccctgccc acaaaaaaaa aaaaaaaaaa aattcggggg       1140
151         ggggcccggg naaccaattn gccctana                                          1169
152         <210> SEQ ID NO 12
153         <211> LENGTH: 1310
154         <212> TYPE: DNA
155         <213> ORGANISM: Homo sapiens
156         <400> SEQUENCE: 12
157         aattcggcac gaggcagcgt cgcgcggccc agttcccttt tccggtcggc gtggtcttgc         60
158         gagtggagtg tccgctgtgc ccgggcctgc accatgagcg tcccggcctt catcgacatc        120
159         agtgaagaag atcaggctgc tgagcttcgt gcttatctga aatctaaagg agctgagatt        180
160         tcagaagaga actcggaagg tggacttcat gttgatttag ctcaaattat tgaagcctgt        240
161         gatgtgtgtc tgaaggagga tgataaagat gttgaaagtg tgatgaacag tgtggtatcc        300
162         ctactcttga tcctggaacc agacaagcaa gaagctttga ttgaaagcct atgtgaaaag        360
163         ctggtcaaat ttcgcgaagg tgaacgcccg tctctgagac tgcagttgtt aagcaacctt        420
164         ttccacggga tggataagaa tactcctgta agatacacag tgtattgcag ccttattaaa        480
165         gtggcagcat cttgtggggc catccagtac atcccaactg agctggatca agttagaaaa        540
166         tggatttctg actggaatct caccactgaa aaaaagcaca cccttttaag actactttat        600
167         gaggcacttg tggattgtaa gaagagtgat gctgcttcaa aagtcatggt ggaattgctc        660
168         ggaagttaca cagaggacaa tgcttcccag gctcgagttg atgcccacag gtgtattgta        720
169         cgagcattga aagatccaaa tgcatttctt tttgaccacc ttcttacttt aaaaccagtc        780
170         aagtttttgg aaggcgagct tattcatgat cttttaacca tttttgtgag tgctaaattg        840
171         gcatcatatg tcaagtttta tcagaataat aaagacttca ttgattcact ggcctgtta         900
172         catgaacaga atatggcaaa aatgagacta cttacttta tgggaatggc agtagaaaat        960
173         aaggaaattt cttttgacac aatgcagcaa gaacttcaga ttggagctga tgatgttgaa       1020
174         gcatttgtta ttgacgccgt aagaactaaa atggtctact gcaaaattga tcagacccag       1080
175         agaaaagtag ttgtcagtca tagcacacat cggacatttg gaaaacagca gtggcaacaa       1140
176         ctgtatgaca cacttaatgc ctggaaacaa aatctgaaca aagtgaaaaa cagccttttg       1200
177         agtctttctg tacctgagt ttttatgctt ataattttg ttctttgaaa aaaaagcccт       1260
178         aaatcatagt aaaacattat aaactaaaaa aaaaaaaaaa aaaaaaaaa                    1310
179         <210> SEQ ID NO 13
180         <211> LENGTH: 1139
181         <212> TYPE: DNA
182         <213> ORGANISM: Homo sapiens
183         <220> FEATURE:
184         <221> NAME/KEY: SITE
185         <222> LOCATION: (7)
186         <223> OTHER INFORMATION: n equals a,t,g, or c
187         <220> FEATURE:
188         <221> NAME/KEY: SITE
189         <222> LOCATION: (133)
190         <223> OTHER INFORMATION: n equals a,t,g, or c
191         <220> FEATURE:
192         <221> NAME/KEY: SITE
193         <222> LOCATION: (968)
194         <223> OTHER INFORMATION: n equals a,t,g, or c
```

195	<220>	FEATURE:
196	<221>	NAME/KEY: SITE
197	<222>	LOCATION: (1139)
198	<223>	OTHER INFORMATION: n equals a,t,g, or c
199	<400>	SEQUENCE: 13

```
W-->  200      agggcanact tacagagata tcatatgaga tcacccctcg cattcgtgtc tggcgccaga   60
      201      ccctcgagcg gtgccggagc gcasccaggt gtgcttgtgc ctgggccagc tggagaggtc  120
W-->  202      cattgcctgg gangaagtct gtcaacaaag tgacatgtct agtctgccgg aagggtgaca  180
      203      atgatgagtt tcttctgctt tgtgatgggt gtraccgtgg ctgccacatt tactgccatc  240
      204      gtcccaagat ggaggctgtc ccagaaggag attggttctg tactgtctgt ttggctcagc  300
      205      aggtggaggg agaattcact cagaagcctg gtttcccaaa gcgtggccag aagcggaaaa  360
      206      gtggttattc gctgaacttc tcagagggtg atggccgccg acgccgggta ctgttgaggg  420
      207      gccgagaaag cccagcagca gggcctcggt actcggaaga agggctctcc ccctccaagc  480
      208      ggcggcgact ctctatgcgg aaccaccaca gtgatctcac attttgcgag attatcctga  540
      209      tggagatgga gtcccatgat gcagcctggc ctttcctaga gcctgtgaac ccacgtttgg  600
      210      tgagtgggta ccggcgcatc atcaaaaatc ctatggattt ttccaccatg cgggagcggc  660
      211      tgctcagggg agggtacacc agctcagagg agtttgcggc tgatgccctc ctggtatttg  720
      212      acaactgcca gactttcaac gaggatgact ctgaagtagg caaggctggg cacatcatgc  780
      213      gccgcttctt cgagagccgc tgggaggagt tttatcaggg aaaacaggcc aatctgtgag  840
      214      gcaagggagg tggggagtca ccttgtggca tctcccccca ccttccaaac aaaaacctgc  900
      215      cattttcacc tgctgatgct gccctgggtc cagactcaag tcagatacaa ccctgatttt  960
W-->  216      tgaccttncc cttggcagtg ccccacatcc tcttattcct acatcccttt ctcccttccc 1020
      217      tcctcttgct cctcaagtaa gaggtgcaga gatgaggtcc ttctggacta aaagccaaaa 1080
W-->  218      aaagaaagaa aaaaawaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaan  1139
```

219	<210>	SEQ ID NO 14
220	<211>	LENGTH: 2271
221	<212>	TYPE: DNA
222	<213>	ORGANISM: Homo sapiens
223	<400>	SEQUENCE: 14

```
      224      gttccggggg atgccagctc acttctcgga cagcgcccag actgaggcct gctaccacat   60
      225      gctgagccgg ccccagccgc cacccgaccc cctcctgctc cagcgtctgc cacggcccag  120
      226      ctccctgtca gacaagaccc agctccacag caggtggctg gactcgtcgc ggtgtctcat  180
      227      gcagcagggc atcaaggccg gggacgcact ctggctgcgc ttcaagtact acagcttctt  240
      228      cgatttggat cccaagacag accccgtgcg gctgacacag ctgtatgagc aggcccggtg  300
      229      ggacctgctg ctggaggaga ttgactgcac cgaggaggag atgatggtgt ttgccgccct  360
      230      gcagtaccac atcaacaagc tgtcccagag cggggaggtg ggggagccgg ctggcacaga  420
      231      cccagggctg gacgacctgg atgtggccct gagcaacctg gaggtgaagc tggaggggtc  480
      232      ggcgcccaca gatgtgctgg acagcctcac caccatccca gagctcaagg accatctccg  540
      233      aatctttcgg ccccggaagc tgaccctgaa gggctaccgc caacactggg tggtgttcaa  600
      234      ggagaccaca ctgtcctact acaagagcca ggacgaggcc cctggggacc ccattcagca  660
      235      gctcaacctc aagggctgtg aggtggttcc cgatgttaac gtctccggcc agaagttctg  720
      236      cattaaactc ctagtgccct cccctgaggg catgagtgag atctacctgc ggtgccagga  780
      237      tgagcagcag tatgcccgct ggatggctgg ctgccgcctg gcctccaaag gccgcaccat  840
      238      ggccgacagc agctacacca gcgaggtgca ggccatcctg gccttcctca gcctgcagcg  900
      239      cacggcagt ggggggcccgg gcaaccaccc ccacggccct gatgcctctg ccgagggcct  960
      240      caacccctac ggcctcgttg ccccccgttt ccagcgaaag ttcaaggcca agcagctcac 1020
      241      cccacggatc ctggaagccc accagaatgt ggcccagttg tcgctggcag aggcccagct 1080
      242      gcgcttcatc caggcctggc agtccctgcc cgacttcggc atctcctatg tcatggtcag 1140
      243      gttcaagggc agcaggaaag acgagatcct gggcatcgcc aacaaccgac tgatccgcat 1200
      ~44      cgacttggcc gtgggcgacg tggtcaagac ctggcgtttc agcaacatgc gccagtggaa 1260
```

Line	?	Error/Warning	Original Text
55	W	"N" or "Xaa" used: Feature required	Trp Ser Xaa Trp Ser
151	W	"N" or "Xaa" used: Feature required	ggggcccggg naaccaattn gcccctana
200	W	"N" or "Xaa" used: Feature required	agggcanact tacagagata tcatatgaga tcacccct
202	W	"N" or "Xaa" used: Feature required	cattgcctgg gangaagtct gtcaacaaag tgacatgt
216	W	"N" or "Xaa" used: Feature required	tgaccttncc cttggcagtg ccccacatcc tcttattc
218	W	"N" or "Xaa" used: Feature required	aagaaagaa aaaaawaaaa aaaaaaaaaa aaaaaaaa
275	W	"N" or "Xaa" used: Feature required	acaacaaaca tcgaaaatcg antatgtgcc ccgaaaag
284	W	"N" or "Xaa" used: Feature required	cttgtttttc ctcttcctcc tcctcctctt cttcctcc
364	W	"N" or "Xaa" used: Feature required	tgccctgcaa agggcagtna accacaaaaa aaaaaaaa
365	W	"N" or "Xaa" used: Feature required	ccgttaacca ttttggcctn atagggggggn ggttttta
397	W	"N" or "Xaa" used: Feature required	gaagaacaca cattactatg acaagcgctg gtcctgtg
398	W	"N" or "Xaa" used: Feature required	tcagcacctc cgtgatcctc atgcagcacc tgctgcnt
409	W	"N" or "Xaa" used: Feature required	aaaaagtcct atttttatac tcccaanmaa aaaaaaaa
419	W	"N" or "Xaa" used: Feature required	ctggtgttgg gcctgagccn cctcaacaac tcctacaa
472	W	"N" or "Xaa" used: Feature required	aaagtantca agaaaaatgg ggttatccca gagccatc
534	W	"N" or "Xaa" used: Feature required	ctgccctggg cccctggcga cantgggagc agggcagt
599	W	"N" or "Xaa" used: Feature required	aatgaaactt ggatattgtt atggtgcttt tnataata
651	W	"N" or "Xaa" used: Feature required	tgagctgcat cttgggcttg gtgctgcccc tggcctat
652	W	"N" or "Xaa" used: Feature required	ggtggcgctg gggcctgcca ntgcctgcag ggcccccca
661	W	"N" or "Xaa" used: Feature required	gcccctgcgc tckcgctkns ttcgctcccc gcccttgc
698	W	"N" or "Xaa" used: Feature required	cttgccntct tctcttttcc cttcctgtac ctttgact
705	W	"N" or "Xaa" used: Feature required	caataaatat tcaaaatgca tccctaawwa aaaaaaaa
739	W	"N" or "Xaa" used: Feature required	gagttcccna cgcggtggcg nccgttttag aaattagt
775	W	"N" or "Xaa" used: Feature required	ggccctgagc cgggtcccct tncgcaagcg cccaccga
833	W	"N" or "Xaa" used: Feature required	gngttttttc cagccaggaa gtgaccgnta ctgcagca
871	W	"N" or "Xaa" used: Feature required	accctgtctc tactaaaawt acagaaatta gctgggng
911	W	"N" or "Xaa" used: Feature required	aagaaaaatt aagangtgga aataatggct aaaagaca
912	W	"N" or "Xaa" used: Feature required	gggctttatg ggaccntaaa gttattatag cttggaag
954	W	"N" or "Xaa" used: Feature required	aggggaataa attaaagttt tcacactgna aaaaaaaa
980	W	"N" or "Xaa" used: Feature required	gtataattat aaatttgntc ggttcnaccg gtcctgtg
996	W	"N" or "Xaa" used: Feature required	tatgtgcatt tgctgtcaca ataaagtata ttttgtct
1029	W	"N" or "Xaa" used: Feature required	ccactatngg caattggtac cggcccccc tcgaggaa
1038	W	"N" or "Xaa" used: Feature required	caccacgtgg gtctcctgtc agcctcgaag tgtcctgc
1061	W	"N" or "Xaa" used: Feature required	atacctgggc tatttataga cctttgggggg gaatngct
1104	W	"N" or "Xaa" used: Feature required	ttacatttga aatataaacc aaatgaaata ttttactg
1115	W	"N" or "Xaa" used: Feature required	ggcagagctt aggagaacag ctccctttgg atccctnt
1193	W	"N" or "Xaa" used: Feature required	ccagtggaat gtcaactggg acatccggca ngtggcca
1195	W	"N" or "Xaa" used: Feature required	cattttcctg tcgacgcggg agngggcccg tggggagg
1318	W	"N" or "Xaa" used: Feature required	Ser Xaa
1367	W	"N" or "Xaa" used: Feature required	Leu Leu Ser Leu Ser Asp Thr Xaa
1466	W	"N" or "Xaa" used: Feature required	Trp Ser Xaa
1482	W	"N" or "Xaa" used: Feature required	Gly Trp Gly Gln Ala Leu Met Ala Gly Leu P
1511	W	"N" or "Xaa" used: Feature required	Leu Xaa Ile Phe Pro Pro Leu Arg Cys Ser A
1546	W	"N" or "Xaa" used: Feature required	Met Thr Ser Ala Gly Pro Val Xaa Leu Phe L
1548	W	"N" or "Xaa" used: Feature required	Thr Ser Val Ile Leu Met Gln His Leu Leu X
1556	W	"N" or "Xaa" used: Feature required	Ala Val Gly Xaa Xaa Xaa Val Ala Ile Pro S
1558	W	"N" or "Xaa" used: Feature required	Arg Phe Xaa Phe Phe Phe Ser Lys Pro Leu A
1568	W	"N" or "Xaa" used: Feature required	Arg Phe Ser Xaa
1609	W	"N" or "Xaa" used: Feature required	Gln Val Ala Val Pro Phe Gln Trp Gln Trp L
1617	W	"N" or "Xaa" used: Feature required	Leu Ser Lys Val Asn Lys Thr Ala Ser Gly A

Line	?	Error/Warning	Original Text
1632	W	"N" or "Xaa" used: Feature required	Val Xaa
1644	W	"N" or "Xaa" used: Feature required	Arg Lys Leu Gln Thr Cys Leu Xaa
1659	W	"N" or "Xaa" used: Feature required	Gly Ile Trp Cys Leu Leu Leu Pro Glu Gln G
1684	W	"N" or "Xaa" used: Feature required	Pro Xaa
1700	W	"N" or "Xaa" used: Feature required	Asn Ser Pro Leu Pro Phe Val His Leu Xaa V
1721	W	"N" or "Xaa" used: Feature required	Ala Tyr Xaa Ser Ser Leu Thr Trp Cys Trp T
1723	W	"N" or "Xaa" used: Feature required	Xaa Pro Ala Gly Pro Pro Arg Cys Thr Pro G
1729	W	"N" or "Xaa" used: Feature required	Xaa
1776	W	"N" or "Xaa" used: Feature required	Leu Xaa
1789	W	"N" or "Xaa" used: Feature required	Ser Thr Asp Thr Gly Ser Ser Ala Pro Gly P
1832	W	"N" or "Xaa" used: Feature required	Pro Gly Pro Xaa
1893	W	"N" or "Xaa" used: Feature required	Ser Leu Phe Ser Ala Ala Arg Phe Leu Phe X
1914	W	"N" or "Xaa" used: Feature required	Leu Pro Ser Cys Glu Cys Cys Cys Arg Ala A
1916	W	"N" or "Xaa" used: Feature required	Xaa Ser Pro Pro Trp Arg Pro Trp Pro Glu G
1953	W	"N" or "Xaa" used: Feature required	Thr Lys Val Arg Lys Lys Asn Xaa
2014	W	"N" or "Xaa" used: Feature required	Arg Asp Arg Asp Glu Leu Xaa
2040	W	"N" or "Xaa" used: Feature required	Val Xaa
2056	W	"N" or "Xaa" used: Feature required	Val Pro Pro Leu Ala Ala Xaa Pro Leu Cys S
2085	W	"N" or "Xaa" used: Feature required	Xaa Leu Cys Val Val Gly Gly Pro Trp Xaa
2117	W	"N" or "Xaa" used: Feature required	Xaa
2131	W	"N" or "Xaa" used: Feature required	Met Leu Asn Pro Phe Xaa Gln Leu Leu Leu V
2133	W	"N" or "Xaa" used: Feature required	Trp Pro Thr Pro Leu His Xaa
2158	W	"N" or "Xaa" used: Feature required	Ser Xaa Thr Leu Xaa Glu Glu Asp Ile Thr G
2164	W	"N" or "Xaa" used: Feature required	Phe Thr Phe Met Arg Glu Asp Arg Cys Ile G
2168	W	"N" or "Xaa" used: Feature required	His Ser His Pro His Xaa Pro Pro Pro Pro T
2213	W	"N" or "Xaa" used: Feature required	Asp Ile Arg Xaa Val Ala Ile Glu Phe Asp G
2217	W	"N" or "Xaa" used: Feature required	Gly Tyr Ile Phe Leu Ser Thr Arg Glu Xaa A
2219	W	"N" or "Xaa" used: Feature required	Asp Glu Asp Leu Phe Leu Gln Leu Thr Gly G
2248	W	"N" or "Xaa" used: Feature required	Arg Arg Ala Ala Gln Glu Val Ser Leu Gln L
2250	W	"N" or "Xaa" used: Feature required	Cys Arg Gln Xaa Thr Ser Arg Ala Phe Ser L
2256	W	"N" or "Xaa" used: Feature required	Leu Xaa
2269	W	"N" or "Xaa" used: Feature required	Ala Cys Ile Cys Phe Cys Xaa
2286	W	"N" or "Xaa" used: Feature required	Pro Ser Pro Trp Xaa Arg Arg Ile Ser Gln G
2632	W	"N" or "Xaa" used: Feature required	Asn Xaa Xaa Leu Arg Lys Thr Ser Leu Phe A
2636	W	"N" or "Xaa" used: Feature required	Leu Thr Leu Arg Glu Thr Trp Lys Gln His X
2646	W	"N" or "Xaa" used: Feature required	Cys Xaa Thr Leu Pro Ala Gly Val His Gln H
2690	W	"N" or "Xaa" used: Feature required	Leu Asn Xaa Xaa Leu Arg Lys Thr Ser Leu P
2703	W	"N" or "Xaa" used: Feature required	Asp Tyr Leu Leu Thr Leu Arg Glu Thr Trp L
2727	W	"N" or "Xaa" used: Feature required	Tyr Asp Lys Arg Trp Ser Cys Xaa Thr Leu P
2747	W	"N" or "Xaa" used: Feature required	Leu Val Leu Gly Leu Ser Xaa Leu Asn Asn S
2895	W	"N" or "Xaa" used: Feature required	Ser Pro Phe Ile Cys Tyr Tyr Xaa Asp Lys T
2897	W	"N" or "Xaa" used: Feature required	Glu Lys Arg Leu Lys Gln Lys Ile Lys Val X
3129	W	"N" or "Xaa" used: Feature required	Val Ala Leu Pro Ala Leu Gly Pro Trp Arg X
3176	W	"N" or "Xaa" used: Feature required	Xaa Phe Ser Phe Pro Phe Leu Tyr Leu
3195	W	"N" or "Xaa" used: Feature required	His Leu Cys Pro Gly His Xaa Ser Leu Ser G
3214	W	"N" or "Xaa" used: Feature required	Leu Ser Val Ser Gln Arg Tyr Arg Lys Gly L
3226	W	"N" or "Xaa" used: Feature required	Gly Lys Xaa Val Leu Gly Arg Gly Gly Ser L
3241	W	"N" or "Xaa" used: Feature required	Ala Leu Val Lys Gly Thr Gly Arg Glu Lys A
3253	W	"N" or "Xaa" used: Feature required	Xaa Val Ser Trp Ala Glu Val Ala Ala Lys P
3302	W	"N" or "Xaa" used: Feature required	Pro Leu Leu Gly Val His His Thr Ser Arg G

Line	?	Error/Warning	Original Text
3434	W	"N" or "Xaa" used: Feature required	Thr Gly Phe His Leu Ile Thr Xaa Ile Trp L
3460	W	"N" or "Xaa" used: Feature required	Gly Phe His Leu Ile Thr Xaa Ile Trp Lys H
3584	W	"N" or "Xaa" used: Feature required	Pro Arg His Thr Cys Ser Gly Gln Gly Leu H
3623	W	"N" or "Xaa" used: Feature required	Asn Ala Ser Trp Glu Ile His Met Thr Gln A
3625	W	"N" or "Xaa" used: Feature required	Leu Ala Arg Ala Ser Met Xaa Val Xaa Xaa X
3715	W	"N" or "Xaa" used: Feature required	Ser Xaa Pro Leu Arg Leu Ala Asp Pro Ser T
3807	W	"N" or "Xaa" used: Feature required	Gly Ala Gln Arg Xaa Cys Gly Gln Gly Arg H
3809	W	"N" or "Xaa" used: Feature required	Xaa Gly Ala Gln Asp Thr Ser Arg Leu Thr G
3815	W	"N" or "Xaa" used: Feature required	Val Trp Pro Glu Ser Arg Lys Arg Ala Gln I
3878	W	"N" or "Xaa" used: Feature required	Ile Ala Gln Val Leu Lys Ala Glu Met Cys L
3880	W	"N" or "Xaa" used: Feature required	Pro Xaa Leu Leu Asp Ser His Arg Gly Trp A
3882	W	"N" or "Xaa" used: Feature required	Gly Gln Gly Arg Gln Glu Xaa Glu Ser Asp T
3897	W	"N" or "Xaa" used: Feature required	Arg Gly Trp Ala Gly Glu Thr Leu Arg Gly G
4131	W	"N" or "Xaa" used: Feature required	Gln Arg Pro Ala Pro Trp Gly Xaa Ala Pro H
4146	W	"N" or "Xaa" used: Feature required	Asp Gln His His Gly Gly Xaa Leu His Met G
4181	W	"N" or "Xaa" used: Feature required	Thr Cys Gly Gly Trp Cys Thr Gly Val Gly G
4185	W	"N" or "Xaa" used: Feature required	Val Phe Arg Xaa Arg Ile Phe Phe Trp Met H
4191	W	"N" or "Xaa" used: Feature required	Thr Met Ala Phe Thr Tyr Gln Val Pro Val I
4193	W	"N" or "Xaa" used: Feature required	Val Lys Asp Arg Ala Ala Ala Xaa Pro Ser V
4218	W	"N" or "Xaa" used: Feature required	Leu Ala Val Gly Glu Gly Gly Gly Gly Xaa G
4220	W	"N" or "Xaa" used: Feature required	Arg Cys Ile Cys Gln Ala Pro Pro Ser Ser A